SWEDX

Welcome to a NEW World

User's Manual
XV1-19AV-series

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Safety Instructions

Power

When not used for extended periods of time, set your PC to DPMS. If using a screen saver, set it to the active screen mode.

If the size of your monitor is small, or if the same image is present for long periods of time , you may see afterimages due to damage to the flourescent substance on the inside of the TFT-LCD.

Do not use a damaged or loose plug.
This may cause an electric shock or fire.

Do not pull the plug out by the wire nor touch the plug with wet hands.
This may cause an electric shock or fire

Use only a properly grounded plug and recepticle.
An improper ground may cause electric shock or equipment damage.

Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.
Failure to do so may cause an electric shock or fire.

Disconnect the plug from the outlet during storms or lightening or if it is not used for a long period of time.
Failure to do so may cause an electric shock or fire.

Do not connect too many extension cords to plugs to an outlet.
This may cause a fire.

Installation

Do not cover the vents on the monitor cabinet.
Bad ventilation may cause a breakdown or fire.

Put your monitor in a location with low humidity and a minimum of dust.
An electric shock or fire could result inside the monitor.

Do not drop the monitor when moving it.
This may cause damage to the product or human body.

Place the monitor on a flat and stable surface.
The monitor can cause injury by falling.

Set down the monitor carefully.
It could be damaged or broken.

Do not place the monitor face down.
The TFT-LCD surface maybe damaged.

Safety Instructions

Clean

When cleaning the monitor case or the surface of the TFT-LCD , wipe with a slightly moistened, soft fabric.

Do not spray detergent directly on the monitor. Use the recommended detergent with a smooth cloth.

If the connector between the plug and the pin is dusty or dirty, clean it properly with a dry cloth.
A dirty connector can cause an electric shock or fire.

Do not set liquids, chemicals or any small metal objects on the monitor.
This may cause damage, electric shock or a fire. If a foreign substance gets into the monitor, disconnect the plug and then contact a service center.

Other

Do not remove cover (or back), No user serviceable parts inside.
This may cause an electric shock or a fire. Refer servicing to qualified service personnel.

If your monitor does not operate normally-in particular, if there are any unusual sounds or smells coming from it- unplug it immediately and contact an authorized dealer or service.
This may cause an electric shock or a fire.

Do not place any heavy objects on the monitor.
This may cause an electric shock or a fire.

Let your eyes rest for 5 minutes. For each hour of looking at the monitor.
This will reduce eye fatigue.

Do not use or store inflammable substances near the monitor.
This may cause an explosion or fire.

Do not move the monitor by pulling the wire or the signal cable.
This may cause a breakdown, electric shock or a fire due to damage to the cable.

Never insert anything metallic into the monitor openings.
This may cause an electric shock, fire or injury.

Keep the monitor away from any magnetic substances.
This may cause discoloring or distortion of the image.

Introduction

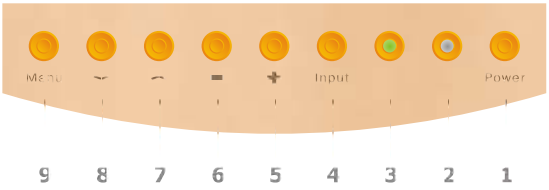
Unpacking

Please make sure the following items are included with your monitor.
If any items are missing, contact your dealer.

For SWEDX XV1-19AV series

- Monitor
- AC/DC power adapter
- AC adapter Cord
- 15-pin D-sub signal cable
- User's manual
- Warranty card (not available in all locations)
- Drivers installation CD (not available in all locations)
- Multimedia Cable (not available in all locations)
- Remote Control (not available in all locations)

Front



1. Power button:
Use this button to turn the monitor on and off.

2. Remote control receiver

3. Power indicator:
This light glows green during normal operation.

4. Input button: Use this button to specify the input of the video signal.

5-6. Adjust button: These buttons allow you to adjust the value the menu. When the OSD is not active, these buttons will adjust the speakers volume.

7. Up-button: Navigation up.

8. Down-button: Navigation down.

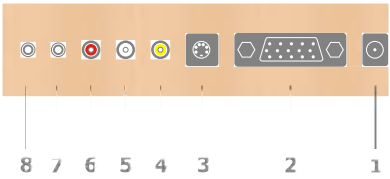
9. Menu button: Use this button to activate the OSD and activate a highlighted menu item and exit function.

Note: See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn the monitor OFF when it is not needed, or when leaving it unattended for long periods.

Introduction

Rear

The configuration at the back of the monitor may vary from product to product.



1. Power port
2. VGA-Signal port
3. S-Video port
4. Composite Video port
5. Audio-in left
6. Audio-in right
7. Audio-in from PC
8. Audio-out from Monitor

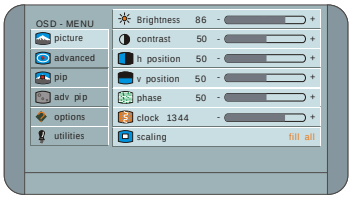
Note: See "Connecting your monitor" for further Information regarding cable connections.

Connecting The Monitor

1. Connect the power cord for the monitor to the power port on the back of the monitor, Plug the power cord for the monitor into a nearby outlet.
2. Connect the VGA-signal cable to the VGA D-sub connector on the back of the monitor, or connect the monitor to another device through the S-video or Composite Video ports
3. If you are using a Macintosh computer, connect the cable to a Macintosh adapter, and set the pins on your adapter (Adapter not included). PC-conpatible computers do not need an adapter.
4. When connecting to a computer, turn on the computer and monitor. If the monitor displays an image, installation is complete.

Navigate the OSD

How to navigate the OSD menu?



1. Push the Menu button to enter the OSD menu.
2. Use the up/down buttons to select a main category.
3. Push the Menu button to enter the main category you selected in the step 2.
4. Use the up/down buttons to select the sub category you want to adjust.
5. Use the +/- button to adjust to a desired value.
6. Push the Menu button to exit the category and push the Menu button again to exit the OSD.

On-Screen Display "OSD"

Adjustable values

Picture

Brightness:	Adjust the brightness of the monitor's entire display.
Contrast:	Adjust the contrast of the monitor's entire display.
H-Position:	Adjust the horizontal position of the monitor's entire display.
V-Position:	Adjust the vertical position of the monitor's entire display.
Phase:	Adjust the phase of the monitor's entire display.
Clock:	Adjust the frequency of the monitor's entire display.
Scaling:	Adjust the scale of the monitor's entire display.

Advanced

Sharpness:	Adjust the sharpness of the monitor's entire display.
Gamma:	Adjust the gamma of the monitor's entire display.
Color Temp:	Adjust the color temperature of the monitor's entire display.
User Red:	Adjust the red color of the monitor's entire display.
User Green:	Adjust the green color of the monitor's entire display.
User Blue:	Adjust the blue color of the monitor's entire display.

PIP (Picture in Picture)

Size:	Adjust the size of the PIP window.
Position:	Adjust the position of the PIP window.
Source:	Specify the source of the PIP window.
Brightness:	Adjust the brightness of the PIP window.
Contrast:	Adjust the contrast of the PIP window.
Color:	Adjust the colors for the PIP window.
Tint:	Adjust the tint of the PIP window.
Sharpness:	Adjust the sharpness of the PIP window.

Advanced PIP

H-Position:	Adjust the horizontal position of the PIP window.
V-Position	Adjust the vertical position of the PIP window.
Video format:	Specify the video signal format.
Video type	Specify the video signal type.

Options

OSD position:	Adjust the OSD position to a preprogrammed position
OSD h position:	Adjust the horizontal position of the OSD.
OSD v position:	Adjust the vertical position of the OSD.
OSD timeout:	Adjust the time the OSD will be displayed before it turns off. The OSD will automatically turn off if no adjustments are made for the certain time.
OSD background:	Specify the background of the OSD.
Mode information:	Display the actual resolution, frequency and mode.

Utilities

Language:	Specify the OSD language.
Volume:	Adjust the speakers volume.
Freeze Frame:	Freeze the actual displayed picture.
Factory Reset:	Reset all values to the factory settings.
Version Number:	Display the OSD's software version.

Troubleshooting

Check List

Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please contact your dealer or visit our homepage http://www.swedx.com.

Symptom	Check list	Solution
No images on the screen. I can't turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see "No Connection, Check Signal Cable" on the screen?	Check the signal cable connection.
	If the power is on, reboot the computer to see the initial screen (the login screen).	If the initial screen(the login screen) appears, boot the computer in the applicable mode(the safe mode for Windows 95/98/2000/NT/XP) and then change the frequency of the video card. (Refer to the Preset Display Modes). If the initial screen (the login screen) does not appear, contact your dealer.
	Can you see "Video mode not supported" on the screen?	You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can properly handle. Adjust the maximum resolution and frequency that the monitor can properly handle.
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in Power Saver mode. Press a key on the keyboard or move the mouse to activate the monitor and restore the image on the screen.

Troubleshooting

Check List

Symptom	Check list	Solution
The image on the screen is shaking.	Check the monitor configuration to see if it is in Interlace Mode. (Interlace Mode: Vertical frequency 43Hz, 87Hz(i),etc).	The signal from the video card exceeds the maximum resolution and frequency of the monitor.
	Are there any magnetic products such as a power adapter, speaker or a high voltage wire near by?	Move the monitor away from anything that can create a strong magnetic field.
	Is the voltage stable?	The screen image can appear to shake or vibrate at a particular time of day due to low supply voltage.
	The screen image can also appear to shake or vibrate if there is a problem with the video card or the computer's main board.	
The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in it's slot.
	Have the screen colors become strange after running a program or due to a crash between applications?	Reboot the computer.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
The screen suddenly has become unbalanced.	Have you changed the video card or the drivers?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency to the monitor?	Adjust the resolution and frequency at the video card.

Troubleshooting

Check List

Symptom	Check list	Solution
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency to the monitor?	Adjust the resolution and frequency at the video card. (Refer to the Preset Display Modes)
LED is blinking but no images on the screen.	Is the frequency properly adjusted when checking the Display Timing on the menu?	Adjust the frequency properly by referring to the video card manual and the Preset Display Modes.
There are only 16 colors shown on the screen. The screen colors have changed after changing the video card.	Have the Windows colors been set properly?	For Windows95/98: Set the colors properly at the Control Panel, Display Settings.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads Unrecognized monitor, Plug & Play (VESA DDC) monitor found.	Have you installed the monitor drivers?	Find updated monitor driver in our web site http://www.swedx.com.
	See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.	Install the monitor driver according to the Driver Installation Instructions.

Check the following items if there is trouble with the monitor.

1. Check if the power cord and the cable are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.
   (If it does, request an after-service for the main board of the computer.)
3. If you installed a new video card or if you assembled the PC, check if the installed the adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 75Hz or 85Hz.
   (Do not exceed 60Hz when using the maximum resolution.)
5. If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the Control Panel, System, Device Administrator and then reboot the computer to reinstall the adapter (video) driver.

Note: If problems repeatedly occur, contract an authorized service center.

Troubleshooting

Q & A

Question	Answer
How can I change the frequency?	Frequency can be changed by reconfiguring the video card. Note that video card support can vary, depending on the version of the driver used.(Refer to the computer or the video card manual for details.)
How can I adjust the resolution?	Windows 95/98/2000/NT/XP: Set the resolution at the Control Panel, Display, Setting. Windows 3.1: Change the resolution and the colors using the VGA Utility provided by the video card. Contact the video card manufacture for details.
How can I set the Power Saving function?	For Windows 95/98/2000/NT/XP: Set the function at BIOS-SETUP of the computer or the screen saver.(Refer to Windows/Computer Manual). Windows 3.1: Set the function using the VGA Utility provided by the video card.
How can I clean the outer case/LCD panel?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

Specification

General

Features/Model	XV1-19AV-***
Resolution	SXGA
Number of Pixels	1.280x1.024
Active Area (mm)	376.3x301.1
Pixel Pitch (mm)	0.294
Mode	PVA
Number of Colors	16.7m
Contrast Ratio	500:1
Brightness (cd/m^2)	250
Response Time (at 25jC)	<25ms
Viewing Angle (U/D/L/R)	80/80/80/80
Backlight	4CCFL
Outline Dimension (mm)	522x460x225
Power Supply Voltage (V)	12
Power Consumption	40W Maximum

Environmental considerations

Operating	Temperature: 50°F~104°F(10°C~40°C)
	Humidity: 10%~80%, non-condensing
Storage	Temperature: -4°F~113°F(-20°C~45°C)
	Humidity: 5%~95%, non-condensing.

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.

PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you move the computers mouse or press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needs, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

Specification

PowerSaver

State	Normal Operation	Power Saving Mode EPA/EERGY 2000	Power Switch off
Power Indicator	Green	Green, Blinking	Lamp off
Power Consumption	Less than 40W	Less than 3W	Less than 1W

This monitor is EPA ENERGY STAR® compliant and ENERGY 2000 compliant when used with a computer equipped with DPMS functionality. SWEDX has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Preset Timing Modes

The Swedx XV1-19-** can support any video mode at the input within the following constraints:
The signal sample frequency on the input 80MHz.
The horizontal sync frequency between 30KHz and 60KHz.
The modes are detected when presented to the input and previous alignments for setup are automatically recalled. A true multi-sync monitor emulation is implemented.
The factory preset supported modes include:

Table1. Preset Timing Modes

Mode	Resolution	Refresh rate	H-freq.	Pixel freq.	Remarks
VGA	640x350	70Hz	31.47KHz	25.175MHz	VESA Standard
VGA	720x400	59.940Hz	31.469KHz	25.175MHz	IBM VGA 3H
VGA	640x480	60Hz	31.5KHz	25.175MHz	Industry Standard
VGA	640x480	72Hz	37.9KHz	31.500MHz	VESA Standard
VGA	640x 480	75Hz	37.5KHz	31.500MHz	VESA Standard
SVGA	800x600	60Hz	37.9KHz	40.000MHz	VESA Guidelines
SVGA	800x600	72Hz	48.1KHz	50.000MHz	VESA Standard
SVGA	800x600	75Hz	46.9KHz	49.500MHz	VESA Standard
XGA	1024x768	60Hz	48.4KHz	65.000MHz	VESA Guidelines
XGA	1024x768	70Hz	56.5KHz	75.000MHz	VESA Standard
XGA	1024x768	75Hz	60KHz	78.750MHz	VESA Standard
SXXA	1280x1024	60Hz	64KHz	108.000MHz	VESA Standard
SXGA	1280x1024	75Hz	80KHz	135.000MHz	VESA Standard

Information

Terms

Dot Pitch
The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the Dot Pitch. Unit: mm

Vertical Frequency
The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz.
Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz. In this case, flickering of the screen can be detected. To avoid this problem, there is a Flicker-free Mode using a vertical frequency over 70 Hz.

Horizontal Frequency
The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Interlace and Non-Interlace Methods
Showing the horizontal lines of the screen from the top to the bottom in order is called the Non- Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

Plug & Play
This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

Resolution
The number of horizontal and vertical dots used to compose the screen image is called resolution. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.
Example: If the resolution is 1024 x 768, this means the screen is composed of 1024 horizontal dots (horizontal resolution) and 768 vertical lines (vertical resolution).

Information

For Better Display

1. Adjust computer resolution and screen injection rate (refresh rate) in control panel of computer as described below to enjoy the best quality of picture. You can have an uneven quality of picture in the screen if the best quality of picture is not provided in TFT-LCD.

   Resolution: 1024 x 768
   Vertical frequency (refresh rate): 60 Hz

2. TFT LCD panel manufactured by using advanced semiconductor technology with precision of 99.999% above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness. For example, the number of TFT LCD pixels that is contained in the 15" are 2,359,296.

3. When you clean the monitor and the panel outside, please apply the recommended small amount of cleaner by using soft and dry cloth and polish it. Let LCD area not to be forced but to be scrubbed out softly. If excessive force is applied, you can have a stain on it.

Authority

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Reproduction in any manner whatsoever without the written permission of SWEDX is strictly forbidden. SWEDX shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Warranty and Service Terms

The following terms apply only to new "in the original carton" SWEDX products marketed and distributed by SWEDX, which are purchased and used by the original consumer purchaser. This information is subject to the terms and conditions of the written SWEDX warranty statement included with each product, and are available for examination from the dealer prior to purchase.

Depending on the model, your terms and conditions may be different from those shown below, and this information is subject to change without prior notice. Unless specifically stated otherwise, used and reconditioned products that are resold have no warranty from SWEDX and are considered sold "AS-IS", however, the selling dealer may offer additional service options.

Warranty for SWEDX TFT-LCD Monitor:

Product	LCD Panel	Labor	Parts
SWEDX TFT LCD Monitor	2 Years	3 Years	3 Years

What the warranty covers:
SWEDX warrants your SWEDX display(s) against defects in material and workmanship during the warranty period from SWEDX factory delivery date shown in the shipping documents. If a product proves to be defective in material or workmanship during the warranty period, SWEDX will, at its sole option repair or replace the product with a similar product, provided the purchaser adheres to certain return authorization procedures and guidelines. SWEDX reserves the right to charge customer in case of warranty conditions not are fulfilled

How long the warranty is effective:
SWEDX display products are warranted for one (1) year for LCD Panel, three (3) years for parts and labor, starting from the delivery date as per shown on the corresponding shipping documents.

Who the warranty protects:
This warranty is valid only for the first purchaser.

What the warranty does not cover:
1. Any product which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   A. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
   B. Repair or attempted repair by anyone not authorized by SWEDX.
   C. Any damage of the product due to shipment.
   D. Removal or installation of the product.
   E. Causes external to the product, such as electric power fluctuations or failure.
   F. Use of supplies or parts not meeting SWEDX specifications.
   G. Normal wear and tear
   H. Any other cause which does not relate to a product defect.

Warranty and Service Terms

3. Cosmetic damage by purchaser, such as markings, discoloration, scratches, dents, anti-theft devices markings, gouges or any other defacement
4. Physically damaged products by purchaser, such as broken PCB, Housing, damaged LCD Module
5. No Defect Found (product returned to SWEDX as defective but failure is not duplicated by SWEDX's test method.)
6. The product is not in accordance with the fault in the application
7. Timber is a lifelike natural material which can cause some little changes in the precision of the produced product such as small openings line beside the connecting point and some other small changes which are out of SWEDX control and don't make any effect for the product functionality.

Dead on Arrival (DOA)
If the product fails within the manufacturer's DOA period, a replacement product will be offered.

Before contacting us:
In many cases, your monitor may not need repair. Before you contact us, please consult the troubleshooting section in your user's manual or SWEDX's FAQ webpages at (http://www.swedx.com/support/faq.htm) to see if you can easily remedy the problem yourself.

How to get service:
1. For information on obtaining warranty service, contact SWEDX dealer (the place where you bought your product) in first choice. If of any reason you can not contact your dealer, please contact SWEDX Customer Service by emailing to support@swedx.com or call SWEDX at the telephone number of +46-8-4418444. To obtain warranty service, you will be required to fill out RMA Request Form (return merchandise/material authorization) available on side 19 of the user's manual, or on the following address (http://www.swedx.com/support/rma.htm) to provide:
   A. Your information.
   B. Reference of your purchase and copy of your invoice confirming your warranty.
   C. Product information.
   D. A description of the problem.
2. If the contact is maid with SWEDX Customer Service, SWEDX will contact the customer upon receipt of the RMA Request Form and issue a RMA number within normally 48 hours, and give the customer further instructions.

SWEDX technical support services:
During the period of product warranty, we support your basic configuration, setup and troubleshooting questions, and when required, we provide you with all instructions on how to return your product for repair. For support inquiries, please call +46-8-4418444 or e-mail us at support@swedx.com
RMA program is subject to changes at any time without prior notice. The above policies are for warranty service and the customer will be responsible for any costs associated with non-warranty conditions such as control test, shipping and administration costs etc.

Warranty and Service Terms

SWEDX reserves the right to make final decisions regarding problem determination and the appropriate service option. Exchange units assume the remaining warranty of the original product. Please refer to your SWEDX Limited Warranty Statement for complete terms and conditions, as some models have other terms and conditions. Some limitations and restrictions apply and these programs are subject to change without prior notice.

Limitation of liability

If your SWEDX product fails to work as warranted above, your sole and exclusive remedy shall be repaired or replaced. SWEDX's maximum liability under this limited warranty is expressly limited to the lesser of the price you have paid for the product or the cost of repairing or replacement of any hardware components that malfunction in conditions of normal use. SWEDX is not liable for any damages caused by the product or the failure of the product to perform, including any lost profits or savings or special, incidental, or consequential damages. SWEDX is not liable for any claim made by a third party or made by you for a third party.

This limitation of liability applies whether damages are sought, or a claim made, under this limited warranty or as a tort claim (including negligence and strict product liability), a contract claim, or any other claim. This limitation of liability cannot be waived or amended by any person. This limitation of liability will be effective even if you have advised SWEDX or an authorized representative of SWEDX of the possibility of any such damages. This limitation of liability, however, will not apply to claims for personal injury.

RMA Request Form			
Your information			
Name/Comapny Name			
Address			
City / State / Zip			
Contact Name			
Title			
Daytime Phone		Fax	
E-mail Address			
Product Information			
Numbers of Units Returning	i.e."Invoice Number", "Order Number", etc.		
Reference Number(s)			
Model ID	Problem Description		

SWEDX

Welcome to a NEW World

Address: Landsvägen 3-5. S-192 70 Sollentuna. Stockholm. SWEDEN
Phone: +46 8 4418444. Fax: +46 8 4418441
E-mail: info@swedx.com. Homepage: www.swedx.com.